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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,282	06/10/2005	Stephen M Pitchers	GB02 0227 US	1864

24738 7590 12/13/2006

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EXAMINER

DAO, MINH D

ART UNIT	PAPER NUMBER
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2618

DATE MAILED: 12/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/538,282

Applicant(s)

PITCHERS, STEPHEN M

Examiner

MINH D. DAO

Art Unit

2618

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Liang (US 7,099,671).

Regarding claim 1, Liang teaches an electronic device, comprising: a first wireless transceiver module using a first communication protocol (see fig. 3, item 320); a second wireless transceiver module using a second communication protocol (see fig. 3, item 330), the second wireless transceiver module comprising a controller for avoiding an interference with an external signal on a frequency of the second communication protocol (see fig. 5; col. 8, line 33 to col. 9, line 47. In this case, the MAC 515 of Liang reads on the Controller of the present invention); and a mediator coupled between the first wireless transceiver module and the second wireless transceiver module, the mediator being arranged to provide the controller with a blocking signal in response to an enabled communication involving the first wireless transceiver module (see fig. 5;

Art Unit: 2618

col. 8, line 33 to col. 9, line 47). In this case, the CU 510 of Liang reads on the Mediator of the present invention).

Regarding claim 2, Liang teaches an electronic device as claimed in claim 1, wherein the controller implements at least a part of a carrier sense multiple access collision avoidance principle (see col. 8, line 33 to col. 9, line 47).

Regarding claim 3, Liang teaches an electronic device as claimed in claim 1, wherein the first wireless transceiver module and the second wireless transceiver module share at least a part of a physical layer (see fig. 5, items 520,525,535).

Regarding claim 4, Liang teaches an electronic device (400-) as claimed in claim 1, wherein the mediator is arranged to provide the blocking signal during a time interval matching the duration of the enabled communication (see col. 11, line 12 to col. 12, line 46).

Regarding claim 5, Liang teaches an electronic device as claimed in claim 1, wherein the first wireless transceiver module comprises a further controller for avoiding an interference with a further external signal on a frequency of the first communication protocol; the mediator being further arranged to provide the further controller with a further blocking signal in response to a further enabled communication involving the second wireless transceiver module (see fig. 5, item 530 and 535).

Regarding claim 6, Liang teaches a method for controlling communications involving a communication system, the communication system comprising: a first wireless transceiver module using a first communication protocol; a second wireless transceiver module using a second communication protocol, the second wireless transceiver module comprising a controller for avoiding an interference with an external signal on a frequency of the second communication protocol; the method comprising the steps of: detecting an enabled communication involving the first wireless transceiver module; and providing the controller with a blocking signal in response to the enabled communication (see figs. 3 and 5; col. 8, line 33 to col. 9, line 47).

Regarding claim 7, the claim includes the limitations as that of claim 1, and therefore is interpreted and rejected for the same reason set forth in the rejection of claim 1. In addition, Liang also teaches a wired network (see fig. 3, Digital Device 310 coupled to items 320 (802.11) and 330 (Bluetooth); also col. 8, line 33 to col. 9, line 47).

Regarding claim 8, Liang teaches a communication system as claimed in claim 7, wherein the mediator is coupled to the controller via the wired network (see fig. 3, Digital Device 310 coupled to items 320 (802.11) and 330 (Bluetooth); also col. 8, line 33 to col. 9, line 47).

Art Unit: 2618

Regarding claim 9, the claim includes the limitations as that of claim 5, and therefore is interpreted and rejected for the same reason set forth in the rejection of claim 5.

Regarding claim 10, the claim includes the limitations as that of claim 3, and therefore is interpreted and rejected for the same reason set forth in the rejection of claim 3.

Conclusion

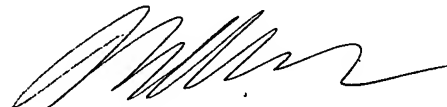
Any inquiry concerning this communication or earlier communications from the examiner should be directed to MINH D. DAO whose telephone number is 571-272-7851. The examiner can normally be reached on 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MATTHEW ANDERSON can be reached on 571-272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Minh Dao *MD*
AU 2618
December 8, 2006



Matthew Anderson
Supervisor AU 2618